

# PATENT COOPERATION TREATY

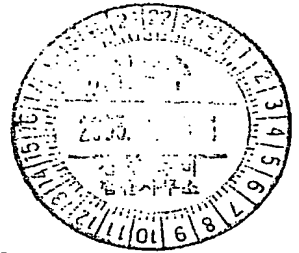
From the  
INTERNATIONAL SEARCHING AUTHORITY

To:

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## PCT



WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing  
(day/month/year) **26 JANUARY 2005 (26.01.2005)**

Applicant's or agent's file reference  
**04FKWM019**

**FOR FURTHER ACTION**

See paragraph 2 below

International application No.

**PCT/KR2004/002622**

International filing date (day/month/year)

**14 OCTOBER 2004 (14.10.2004)**

Priority date(day/month/year)

**16 OCTOBER 2003 (16.10.2003)**

International Patent Classification (IPC) or both national classification and IPC

**IPC7 F24C 15/08**

Applicant

**LG ELECTRONICS, INC. et al**

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.  
For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/KR



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WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2004/002622

Box No. 1 Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.  
☐ This opinion has been established on the basis of a translation from the original language into the following language \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
  - a. type of material  
☐ a sequence listing  
☐ table(s) related to the sequence listing
  - b. format of material  
☐ in written format  
☐ in computer readable form
  - c. time of filing/furnishing  
☐ contained in the international application as filed.  
☐ filed together with the international application in computer readable form.  
☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

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**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.  
PCT/KR2004/002622

**Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

**1. Statement**

Novelty (N)	Claims	1-20	YES
	Claims		NO
Inventive step (IS)	Claims	1-15, 17, 18, 20	YES
	Claims	16, 19	NO
Industrial applicability (IA)	Claims	1-20	YES
	Claims		NO

**2. Citations and explanations :**

Reference is made to the following documents:

D1: KR 2000-0014344 A

D2: KR 2003-0074008 A

D1 relates to a microwave oven comprising a cooking cavity, a door and a lower duct including air intake holes, and D2 relates to a microwave oven comprising a cooking cavity, a door and an outer casing including a strengthening bead.

Claims 16 and 19 of the present application relate to a microwave oven comprising a cooking cavity, a door and a cover body including a strengthening rib.

Comparing claims 16 and 19 with D1 and D2, it would be obvious to a person skilled in the art to combine the lower duct including air intake holes of D1 and the outer casing including a strengthening bead of D2, thereby arriving at the invention claimed in claims 16 and 19.

Therefore, claims 16 and 19 lack an inventive step under PCT Article 33(3).

The independent claims 1, 10 and 20 are characterized by the strengthening element at the rim of the air intake holes, and neither D1 nor D2 discloses said technical feature of claims 1, 10 and 20.

Therefore, the subject matter of claims 1, 10 and 20 is considered to be novel and to involve an inventive step, and the subject matter of claims 2-9 and 11-15 which respectively depend on claims 1 and 10 is also considered to be novel and to involve an inventive step.